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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/868,391	06/18/2001	Rainer Schmidt	FCS-PT001	8962

3624 7590 10/21/2002

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EXAMINER

POKER, JENNIFER A

ART UNIT	PAPER NUMBER
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2832

DATE MAILED: 10/21/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/868,391

Applicant(s)

SCHMIDT ET AL.

Examiner

Jennifer A. Poker

Art Unit

2832

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 June 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 June 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3 and 5.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

2. The disclosure is objected to because of the following informalities: The specification makes reference to claims 1-13 on page 3.

The elimination of this reference is required.

Drawings

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "200" on page 7 for figure 4 has been used to designate both the "remote feeder reactance oil" and the "terminal of the primary winding". A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: 12, 204, 206, 208, and 220. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

5. Claim 13 is objected to because of the following informalities: its preamble is not consistent with the claims on which it is dependent.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

7. Claims 2, 11, and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Referring to claim 2, the applicant states, "...said primary and said secondary winding have substantially parallel winding axis, in particular one common winding axis." It was unclear as to whether the applicant was claiming one or two winding axis for the primary and secondary windings. It was understood by the examiner that either would be appropriate. Prior art was applied accordingly.

Referring to claims 11 and 12, the applicant states in claim 12, "...characterized in that said tubular body is on an electrically insulating material and encompasses a core." However, in claim 11 of which claim 12 is dependant, the applicant makes it an option as to whether the primary winding is spirally wound onto a core OR a tubular body. Examiner understood that the core was to be electrically insulated, and applied art accordingly.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

9. Claim 1, 6, 8, 11, 13 are rejected under 35 U.S.C. 102(b) as being unpatentable by U.S. Patent Number 4,961,049 to Ghislanzoni.

Referring to claims 1 and 6, Ghislanzoni discloses a current measuring apparatus, including a transformer, which is suitable for providing a signal, comprising:

- (1) A primary conductive winding, which conveys the current. (Abstract)
- (2) A secondary conductive winding with a resistor, which forms an attenuation circuit.

(figure 7)

- (3) Coupling between the primary and secondary conductive windings. (Fig. 7)

Referring to claim 8, Ghislanzoni, illustrates in figures 1 and 7 that a resistor along with summing device is used for connecting the terminals for the secondary winding.

Referring to claim 11, Ghislanzoni illustrates in figures 1 and 7 that the primary winding is spirally wound onto a core.

Referring to claim 13, Ghislanzoni discloses a system, which provided signals. Amplifiers together with the resistor are connected across the terminals of the secondary winding.

Art Unit: 2832

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claims 2-4, 5, 7, 9, and 10 rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Number 4,961,049 to Ghislanzoni in view of U.S. Patent Number 4,806,834 to Koenig.

Ghislanzoni discloses the claimed invention except for the characteristics of the windings.

Koenig discloses an electrical circuit for carrying current comprising:

(1) (Referring to claims 2, 5, and 7), Primary and secondary windings made of electrically conductive wire with resistance, wound about a common axis. (Figures 1 and 4)

(2) (Referring to claims 3 and 4), The turns of the secondary winding being located between the turns of the primary winding. (Figure 4)

(3) (Referring to claim 9), A tap (a terminal) connects the secondary winding to the primary winding. (Column 3, Lines 37-39)

(4) (Referring to claim 10), An insulating sheath (not shown) is disposed between the primary and secondary windings. (Column 4, lines 19-23)

One skilled in the art, at the time the invention was made, would have found it obvious to combine the teachings of Ghislanzoni with the teachings of Koenig to provide a connection between the primary and secondary winding in order to transfer current. Furthermore, the incorporation of insulation on one of the windings or between them would protect the windings from one another.

Art Unit: 2832

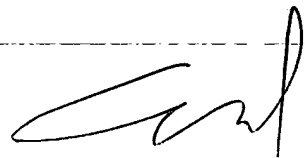
Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer A. Poker whose telephone number is 703-305-4037. The examiner can normally be reached on 6:00-3:30, Mon.-Fri. (alternating Fridays off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on 703-308-7619. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-3432 for regular communications and 703-746-8181 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 730-308-5115.

jap
October 2, 2002


ELVIN ENAD
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800
10/4/02